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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/914,744	09/04/2001	Shigeyoshi Yoshida	0694-149	2676
7590 11/24/2004			EXAMINER	
NEC TOKIN CORPORATION BRADLEY N. RUBEN, PC			KOSLOW, CAROL M	
463 FIRST ST.	•		ART UNIT	PÅPER NUMBER
HOBOKEN, N	J 07030-1859		1755	

DATE MAILED: 11/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/914,744	YOSHIDA ET AL	
Office Action Summary	Examiner	Art Unit	
	C. Melissa Koslow	1755	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi will apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication BANDONED (35 U.S.C. & 133)	n.
Status			
Responsive to communication(s) filed on <u>11/13</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowan closed in accordance with the practice under <i>E</i> .	action is non-final. ace except for formal mat		3
Disposition of Claims			
4) ⊠ Claim(s) 1,3,4,6-9 and 12-19 is/are pending in to 4a) Of the above claim(s) 15-17 is/are withdrawn 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,3,4,6-9,12,14,18 and 19 is/are reject 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	pted or b) objected to rawing(s) be held in abeyar on is required if the drawing	ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in A ty documents have been (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)		-	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/7/04.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 	

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This action is in response to the amendments to the claims filed 27 September 2004, the amendments to the specification, title and abstract of 13 November 2003 and the arguments in the response of 13 November 2003 and 19 May 2004. The amendments to the specification, title and abstract of 13 November 2003 have overcome the objections to the abstract, title and disclosure. The amendments to the claims of 27 September 2004 have overcome the 35 USC 112 rejections. Applicant's arguments filed 13 November 2003 and 19 May 2004 over the art rejection have been fully considered but they are not persuasive.

Claims 18 and 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

The bwr ranges of claims 18 and 19 are not found in the specification. The examples teach a bwr range of 148-191%. This range was obtained using the lowest bwr values taught in the examples. The exemplified range does not support the claimed ranges which include values less than 148% and greater than 191%. Accordingly these claims are new matter.

Applicants argue example 1 and example 6 supports the newly claimed ranges. Example 1 teaches a brw value of 148% and example 6 teaches a brw value of 191%. There is no teaching in the specification of any brw values below 148% and above 191%.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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This claim is dependent on cancelled claim 5.

It is clear that claim 7 should depend from claim 6 not claim 5. This is because the amendment of 4 September 2001 changed the dependency of claim 7 from "claim 5 or 6" to "claim 5" and the amendment of 13 November 2003, which was next amendment in which claim 7 was amended, changed the dependency from "claim 6" to "claim 5". Accordingly, the Examiner is treating claim 7 as if it was dependent from claim 6.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 6-9, 12 and 19 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 09-181476.

Paragraphs 36-41 teach a thin film magnetic substance consisting of iron grains in a matrix composition consisting of Al and O. This thin film is produced by sputtering. The taught film has a DC specific resistance of about 1000 $\mu\Omega$ •cm, a saturation magnetization of 8.82 kG and a maximum μ " in the range of 0.9-1.1 GHz. The ratio of the taught saturation magnetization to the bulk saturation magnetization of Fe (22 kG) is about 40%, which falls within the claimed ranges. The DC specific resistance and maximum μ " also fall within the claimed ranges. It is difficult to determine the brw from figure 6, but one of ordinary skill in the art would expect it to 148% or greater, absent any showing to the contrary, since all the other properties of the taught material falls within those claimed, the material has the same composition as the claimed material and it is produced by the same method. When the prior art and appellant both describe processes which are indistinguishable, then the products may also be assumed to be inherently indistinguishable. *In re Myers* 159 USPQ 339 (CCPA 1968); *In re Prindle* 132 USPQ 282

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(CCPA 1962). Similar processes can reasonably be expected to yield products which inherently have the same properties. *In re Spada* 15 USPQ2d 1655 (CAFC 1990); *In re DeBlauwe* 222 USPQ 191; *In re Wiegand* 86 USPQ 155 (CCPA 1950). "Products of identical chemical composition can not have mutually exclusive properties. "A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658(Fed. Cir. 1990). The reference teaches the claimed material.

Claims 1, 3, 4, 6-9, 12, 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Han et al.

This article teaches producing a thin film of Fe distributed as granular grains in an alumina matrix by sputtering. This composition would have the claimed formula Fe-Al-O. Figure 6 shows that this material has an electric resistance in the range of about $100 \, \mu\Omega$ cm up to about $1000 \, \mu\Omega$ cm and a saturation magnetization of 10 to 15 kG. The ratio of the taught saturation magnetization to the bulk saturation magnetization of Fe (22 kG) is 45.5-68.2%. This range falls within the claimed ranges. The article does not teach the brw of the taught composite and the frequency at which the maximum μ " occurs. The taught composite is produced by the same process as that claimed and therefore must have a brw and a frequency at which the maximum μ " occurs that falls with the claimed ranges, absent any showing to the contrary. When the prior art and appellant both describe processes which are indistinguishable, then the products may also be assumed to be inherently indistinguishable. *In re Myers* 159 USPQ 339 (CCPA 1968); *In re Prindle* 132 USPQ 282 (CCPA 1962). Similar processes can reasonably be expected to yield products which inherently have the same properties. *In re Spada* 15 USPQ2d 1655 (CAFC

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1990); In re DeBlauwe 222 USPQ 191; In re Wiegand 86 USPQ 155 (CCPA 1950). The reference teaches the claimed material.

Applicants argue the reference does not describe or appreciate the claimed maximum μ " frequency range and then referred to figure 7 of the article. This figure measures the effective permeability, which is composed of μ " and μ ', for the Fe-Si₃N₄ thin film. This does not show that the taught Fe-Al₂O₃ thin film does not have a maximum μ " that falls within the claimed range. While page 4501 does state Fe-Al₂O₃ thin film fabricated from a high area fraction of ceramic pieces does not show good soft magnetic properties, it is silent as the effective permeability for the Fe-Al₂O₃ thin film, when the area fraction of ceramic pieces is not high. Figures 4 and 6 teach the area fraction of alumina pieces for films that have an electric resistance in the range of about 100 μ Ω•cm up to about 1000 μ Ω•cm and a saturation magnetization of 10 to 15 kG is in the range of about 20-40%, which would not generally be considered a high fraction. There has been no showing that the taught films do not a brw and a frequency at which the maximum μ "occurs that falls with the claimed ranges. The rejection is maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Koslow whose telephone number is (571) 272-1371. The examiner can normally be reached on Monday-Friday from 8:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached at (571) 272-1362.

The fax number for all official communications is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cmk

November 22, 2004

C. Melissa Koslow Primary Examiner Tech. Center 1700